## Vassilis G Aschonitis

List of Publications by Year in descending order

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Version: 2024-02-01

122 papers 2,205 citations

218381 26 h-index 315357 38 g-index

130 all docs

130 docs citations

130 times ranked

2256 citing authors

#	Article	IF	CITATIONS
1	Title is missing!. Hydrobiologia, 2001, 455, 203-212.	1.0	130
2	Solar radiation estimation methods using ANN and empirical models. Computers and Electronics in Agriculture, $2019, 160, 160-167$ .	3.7	86
3	Assessment of spatial hybrid methods for predicting soil organic matter using DEM derivatives and soil parameters. Catena, 2019, 174, 206-216.	2.2	81
4	Land use change effects on ecosystem services of river deltas and coastal wetlands: case study in Volano–Mesola–Goro in Po river delta (Italy). Wetlands Ecology and Management, 2017, 25, 67-86.	0.7	66
5	Criticism on elasticity-sensitivity coefficient for assessing the robustness and sensitivity of ecosystem services values. Ecosystem Services, 2016, 20, 66-68.	2.3	62
6	Vegetated canals mitigate nitrogen surplus in agricultural watersheds. Agriculture, Ecosystems and Environment, 2015, 212, 253-262.	2.5	57
7	Mitigation of nitrogen pollution in vegetated ditches fed by nitrate-rich spring waters. Agriculture, Ecosystems and Environment, 2017, 243, 74-82.	2.5	55
8	Introduction of exotic fish species and decline of native species in the lower Po basin, northâ€eastern Italy. Aquatic Conservation: Marine and Freshwater Ecosystems, 2013, 23, 405-417.	0.9	51
9	Nitrogen Removal in Vegetated and Unvegetated Drainage Ditches Impacted by Diffuse and Point Sources of Pollution. Clean - Soil, Air, Water, 2013, 41, 24-31.	0.7	49
10	Assessment of the Intrinsic Vulnerability of Agricultural Land to Water and Nitrogen Losses via Deterministic Approach and Regression Analysis. Water, Air, and Soil Pollution, 2012, 223, 1605-1614.	1.1	45
11	Nitrogen Budget in a Lowland Coastal Area Within the Po River Basin (Northern Italy): Multiple Evidences of Equilibrium Between Sources and Internal Sinks. Environmental Management, 2013, 52, 567-580.	1.2	43
12	Life Cycle Based Evaluation of Environmental and Economic Impacts of Agricultural Productions in the Mediterranean Area. Sustainability, 2015, 7, 2915-2935.	1.6	43
13	The Role of Microbial Inoculants on Plant Protection, Growth Stimulation, and Crop Productivity of the Olive Tree (Olea europea L.). Plants, 2020, 9, 743.	1.6	43
14	Exotic species invasions undermine regional functional diversity of freshwater fish. Scientific Reports, 2019, 9, 17921.	1.6	41
15	Modelling past, present and future Ecosystem Services supply in a protected floodplain under land use and climate changes. Ecological Modelling, 2019, 403, 23-34.	1.2	38
16	Changes in land use and ecosystem services in tropical forest areas: a case study in Andes mountains of Ecuador. International Journal of Biodiversity Science, Ecosystem Services & Management, 2017, 13, 264-279.	2.9	37
17	Recovery of the macrobenthic community in the Valli di Comacchio, northern Adriatic Sea, Italy. Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie, 2003, 26, 67-75.	0.7	36
18	High-resolution global grids of revised Priestley–Taylor and Hargreaves–Samani coefficients for assessing ASCE-standardized reference crop evapotranspiration and solar radiation. Earth System Science Data, 2017, 9, 615-638.	3.7	36

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19	Benthic nitrogen metabolism in a macrophyte meadow (Vallisneria spiralis L.) under increasing sedimentary organic matter loads. Biogeochemistry, 2015, 124, 387-404.	1.7	33
20	Biogas from Agri-Food and Agricultural Waste Can Appreciate Agro-Ecosystem Services: The Case Study of Emilia Romagna Region. Sustainability, 2020, 12, 8392.	1.6	33
21	An ounce of prevention is worth a pound of cure: Managing macrophytes for nitrate mitigation in irrigated agricultural watersheds. Science of the Total Environment, 2019, 647, 301-312.	3.9	32
22	Occurrence of perfluorooctanesulfonate and perfluorooctanoic acid and histopathology in eels from north Italian waters. Chemosphere, 2015, 118, 117-123.	4.2	31
23	Diversity patterns of native and exotic fish species suggest homogenization processes, but partly fail to highlight extinction threats. Diversity and Distributions, 2019, 25, 983-994.	1.9	30
24	Run to the hills: exotic fish invasions and water quality degradation drive native fish to higher altitudes. Science of the Total Environment, 2018, 624, 1325-1335.	3.9	29
25	Reactive nitrogen losses via denitrification assessed in saturated agricultural soils. Geoderma, 2019, 337, 91-98.	2.3	29
26	To mow or not to mow: reed biofilms as denitrification hotspots in drainage canals. Ecological Engineering, 2018, 113, 1-10.	1.6	28
27	Monitoring and Modeling Nitrate Persistence in a Shallow Aquifer. Water, Air, and Soil Pollution, 2011, 217, 83-93.	1.1	27
28	Reactive Modeling of Denitrification in Soils with Natural and Depleted Organic Matter. Water, Air, and Soil Pollution, 2011, 222, 205-215.	1.1	25
29	Longâ€ŧerm records (1781–2013) of European eel (Anguilla anguilla <i>L.</i> ) production in the Comacchio Lagoon (Italy): evaluation of local and global factors as causes of the population collapse. Aquatic Conservation: Marine and Freshwater Ecosystems, 2017, 27, 502-520.	0.9	24
30	The role of species introduction in modifying the functional diversity of native communities. Science of the Total Environment, 2020, 699, 134364.	3.9	24
31	Soil-related ecosystem services trade-off analysis for sustainable biodiesel production. Biomass and Bioenergy, 2018, 114, 83-99.	2.9	22
32	The effects of hydrological extremes on denitrification, dissimilatory nitrate reduction to ammonium (DNRA) and mineralization in a coastal lagoon. Science of the Total Environment, 2020, 740, 140169.	3.9	22
33	Chlorate origin and fate in shallow groundwater below agricultural landscapes. Environmental Pollution, 2017, 231, 1453-1462.	3.7	21
34	Ecosystem services approach for sustainable governance in a brackish water lagoon used for aquaculture. Journal of Environmental Planning and Management, 2019, 62, 1501-1524.	2.4	21
35	Land use intensification rather than land cover change affects regulating services in the mountainous Adige river basin (Italy). Ecosystem Services, 2020, 45, 101158.	2.3	21
36	Is Bioenergy Truly Sustainable When Land-Use-Change (LUC) Emissions Are Accounted for? The Case-Study of Biogas from Agricultural Biomass in Emilia-Romagna Region, Italy. Sustainability, 2020, 12, 3260.	1.6	21

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37	Estimation of field capacity for aggregated soils using changes of the water retention curve under the effects of Acompaction. European Journal of Soil Science, 2013, 64, 688-698.	1.8	20
38	A regional fish inventory of inland waters in Northern Italy reveals the presence of fully exotic fish communities., 2018, 85, 1-7.		20
39	Soil conditioners effects on hydraulic properties, leaching processes and denitrification on a silty-clay soil. Science of the Total Environment, 2020, 733, 139342.	3.9	20
40	Soil type and microclimatic conditions as drivers of urea transformation kinetics in maize plots. Catena, 2018, 166, 200-208.	2.2	19
41	The effect of water velocity on nitrate removal in vegetated waterways. Journal of Environmental Management, 2018, 215, 230-238.	3.8	19
42	Environmental stressor gradients hierarchically regulate macrozoobenthic community turnover in lotic systems of Northern Italy. Hydrobiologia, 2016, 765, 131-147.	1.0	18
43	Formulation of Indices to Describe Intrinsic Nitrogen Transformation Rates for the Implementation of Best Management Practices in Agricultural Lands. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	17
44	Variation in benthic metabolism and nitrogen cycling across clam aquaculture sites. Marine Pollution Bulletin, 2018, 127, 524-535.	2.3	17
45	Comparing Machine Learning Models and Hybrid Geostatistical Methods Using Environmental and Soil Covariates for Soil pH Prediction. ISPRS International Journal of Geo-Information, 2020, 9, 276.	1.4	17
46	Water quality in irrigation and drainage networks of Thessaloniki plain in Greece related to land use, water management, and agroecosystem protection. Environmental Monitoring and Assessment, 2010, 163, 347-359.	1.3	16
47	Intense rainfalls trigger nitrite leaching in agricultural soils depleted in organic matter. Science of the Total Environment, 2019, 665, 80-90.	3.9	16
48	First evidence of bighead carp wild recruitment in Western Europe, and its relation to hydrology and temperature. PLoS ONE, 2017, 12, e0189517.	1.1	16
49	Methodology to Assess the Effects of Rice Cultivation Under Flooded Conditions on van Genuchten's Model Parameters and Pore Size Distribution. Transport in Porous Media, 2012, 91, 861-876.	1.2	15
50	Estimation of Leaf Area Index and Foliage Area Index of Rice using an Indirect Gravimetric Method. Communications in Soil Science and Plant Analysis, 2014, 45, 1726-1740.	0.6	15
51	Assessment of rural and highly seasonal tourist activity plus drought effects on reservoir operation in a semi-arid region of Greece using the WEAP model. Water International, 2014, 39, 23-34.	0.4	15
52	Long-term fish monitoring underlines a rising tide of temperature tolerant, rheophilic, benthivore and generalist exotics, irrespective of hydrological conditions. Journal of Limnology, 2018, 77, .	0.3	15
53	Contrasting biogeochemical processes revealed by stable isotopes of H2O, N, C and S in shallow aquifers underlying agricultural lowlands. Science of the Total Environment, 2019, 691, 1282-1296.	3.9	15
54	Natural recruitment contributes to high densities of grass carp Ctenopharyngodon idella (Valenciennes, 1844) in Western Europe. Aquatic Invasions, 2015, 10, 439-448.	0.6	15

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55	A ranking system for comparing models' performance combining multiple statistical criteria and scenarios: The case of reference evapotranspiration models. Environmental Modelling and Software, 2019, 114, 98-111.	1.9	14
56	Life Cycle Assessment of Maize-Germ Oil Production and The Use of Bioenergy to Mitigate Environmental Impacts: A Gate-To-Gate Case Study. Resources, 2019, 8, 60.	1.6	14
57	Direct measurement of dissolved dinitrogen to refine reactive modelling of denitrification in agricultural soils. Science of the Total Environment, 2019, 647, 134-140.	3.9	13
58	Modeling Soil Nitrate Accumulation and Leaching in Conventional and Conservation Agriculture Cropping Systems. Water (Switzerland), 2020, 12, 1571.	1.2	13
59	Exotic species, rather than low flow, negatively affect native fish in the Oglio River, Northern Italy. River Research and Applications, 2018, 34, 887-897.	0.7	12
60	Estuarine Macrofauna Affects Benthic Biogeochemistry in a Hypertrophic Lagoon. Water (Switzerland), 2019, 11, 1186.	1.2	12
61	Effects of land use and irrigation practices on Ca, Mg, K, Na loads in rice-based agricultural systems. Agricultural Water Management, 2014, 132, 30-36.	2.4	11
62	Tides and moon drive fish movements in a brackish lagoon. Estuarine, Coastal and Shelf Science, 2018, 215, 207-214.	0.9	11
63	Temporal and spatial changes in the composition and structure of helminth component communities in European eels Anguilla anguilla in an Adriatic coastal lagoon and some freshwaters in Italy. Parasitology Research, 2014, 113, 113-120.	0.6	10
64	Analysis of Temporal Variation of Soil Salinity during the Growing Season in a Flooded Rice Field of Thessaloniki Plain-Greece. Agronomy, 2015, 5, 35-54.	1.3	10
65	An Integrated Approach to Assessing the Soil Quality and Nutritional Status of Large and Long-Term Cultivated Rice Agro-Ecosystems. Agriculture (Switzerland), 2019, 9, 80.	1.4	10
66	Meteorological factors influence marine and resident fish movements in a brackish lagoon. Aquatic Ecology, 2019, 53, 251-263.	0.7	10
67	Topdressing Nitrogen Demand Prediction in Rice Crop Using Machine Learning Systems. Agriculture (Switzerland), 2021, 11, 312.	1.4	10
68	Nutrients and carbon fate in two lowland contrasting soils amended with compost. Catena, 2021, 206, 105493.	2.2	10
69	Correcting Thornthwaite potential evapotranspiration using a global grid of local coefficients to support temperature-based estimations of reference evapotranspiration and aridity indices. Earth System Science Data, 2022, 14, 163-177.	3.7	10
70	An update of the length-weight and length-age relationships of the European eel ( <i>Anguilla) Tj ETQq0 0 0 rgBT Ichthyology, 2014, 30, 558-559.</i>	/Overlock 0.3	10 Tf 50 147 9
71	A novel approach to an ecofunctional fish index for Mediterranean countries. Ecological Indicators, 2018, 89, 376-385.	2.6	9
72	Proposing priorities of intervention for the recovery of native fish populations using hierarchical ranking of environmental and exotic species impact. Journal of Environmental Management, 2018, 210, 36-50.	3.8	9

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73	In Search for the Missing Nitrogen: Closing the Budget to Assess the Role of Denitrification in Agricultural Watersheds. Applied Sciences (Switzerland), 2020, 10, 2136.	1.3	9
74	Structural and functional responses of macroinvertebrate communities in small wetlands of the Po delta with different and variable salinity levels. Estuarine, Coastal and Shelf Science, 2020, 238, 106726.	0.9	9
75	MODELLING YIELDS OF NON-IRRIGATED WINTER WHEAT IN A SEMI-ARID MEDITERRANEAN ENVIRONMENT BASED ON DROUGHT VARIABILITY. Experimental Agriculture, 2013, 49, 448-460.	0.4	8
76	Onsite and online FT-NIR spectroscopy for the estimation of total nitrogen and moisture content in poultry manure. Environmental Technology (United Kingdom), 2015, 36, 2285-2294.	1.2	8
77	A sizeâ€age model based on bootstrapping and Bayesian approaches to assess population dynamics of <i>Anguilla anguilla /i&gt; L. in semiâ€closed lagoons. Ecology of Freshwater Fish, 2017, 26, 217-232.</i>	0.7	8
78	Could a freshwater fish be at the root of dystrophic crises in a coastal lagoon?. Science of the Total Environment, 2020, 711, 135093.	3.9	8
79	Nitrate availability affects denitrification in Phragmites australis sediments. Journal of Environmental Quality, 2020, 49, 194-209.	1.0	8
80	Testing graphene versus classical soil improvers in a sandy calcisol. Catena, 2022, 208, 105754.	2.2	8
81	Terrain Segmentation of Greece Using the Spatial and Seasonal Variation of Reference Crop Evapotranspiration. Advances in Meteorology, 2016, 2016, 1-14.	0.6	7
82	Evaluation of pan coefficient equations in a semi-arid Mediterranean environment using the ASCE-standardized Penman-Monteith method. Agricultural Sciences, 2012, 03, 58-65.	0.2	7
83	Assessment of the intrinsic vulnerability of agricultural land to water and nitrogen losses: case studies in Italy and Greece. Proceedings of the International Association of Hydrological Sciences, 0, 364, 14-19.	1.0	7
84	Nutrients fixation by algae and limiting factors of algal growth in flooded rice fields under semi-arid Mediterranean conditions: case study in Thessaloniki plain in Greece. Nutrient Cycling in Agroecosystems, 2013, 96, 1-13.	1.1	6
85	Testing Spirotetramat as an Alternative Solution to Abamectin for <i>Cacopsylla pyri</i> (Hemiptera:) Tj ETQq1 1	0.784314 0.8	rgBT /Overlo
86	Modeling plant density and ponding water effects on flooded rice evapotranspiration and crop coefficients: critical discussion about the concepts used in current methods. Theoretical and Applied Climatology, 2018, 132, 1165-1186.	1.3	6
87	Contrasting Effects of Bioturbation Studied in Intact and Reconstructed Estuarine Sediments. Water (Switzerland), 2020, 12, 3125.	1.2	6
88	Natural and anthropogenic factors drive large-scale freshwater fish invasions. Scientific Reports, 2022, 12, .	1.6	6
89	Partial decoupling between exotic fish and habitat constraints remains evident in late invasion stages. Aquatic Sciences, 2020, 82, 1.	0.6	5
90	Assessing the Robustness of Pan Evaporation Models for Estimating Reference Crop Evapotranspiration during Recalibration at Local Conditions. Hydrology, 2020, 7, 62.	1.3	5

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91	Assessing Annual Actual Evapotranspiration Based on Climate, Topography and Soil in Natural and Agricultural Ecosystems. Climate, 2021, 9, 20.	1.2	5
92	Spatial and seasonal patterns of precipitation in Greece: the terrain segmentation approach. Global Nest Journal, 2014, 16, 988-997.	0.3	5
93	Effects of forest expansion and land abandonment on ecosystem services of alpine environments: case study in Ledro valley (Italy) for the period 1859-2011. Global Nest Journal, 2016, 18, 875-884.	0.3	5
94	The seasonal response of in situ denitrification and DNRA rates to increasing nitrate availability. Estuarine, Coastal and Shelf Science, 2022, 271, 107856.	0.9	5
95	A combined methodology to assess the intrinsic vulnerability of aquifers to pollution from agrochemicals. Arabian Journal of Geosciences, 2016, 9, 1.	0.6	4
96	Estimate of gas transfer velocity in the presence of emergent vegetation using argon as a tracer: Implications for whole-system denitrification measurements. Chemosphere, 2018, 213, 526-532.	4.2	4
97	Managing the environment in a pinch: red swamp crayfish tells a cautionary tale of ecosystem based management in northeastern Italy. Ecological Engineering, 2018, 120, 546-553.	1.6	4
98	Effect of ebullition and groundwater temperature on estimated dinitrogen excess in contrasting agricultural environments. Science of the Total Environment, 2019, 693, 133638.	3.9	4
99	A Simplistic Approach for Assessing Hydroclimatic Vulnerability of Lakes and Reservoirs with Regulated Superficial Outflow. Hydrology, 2019, 6, 61.	1.3	4
100	The Crucial Role of Soil Organic Matter in Satisfying the Phosphorus Requirements of Olive Trees (Olea europaea L.). Agriculture (Switzerland), 2021, 11, 111.	1.4	4
101	Structural and Functional Variations of the Macrobenthic Community of the Adige Basin along the River Continuum. Water (Switzerland), 2021, 13, 451.	1.2	4
102	A method to identify bimodal weight–length relations: Possible ontogenetic diet and/or metabolism shift effects in Anguilla anguilla (Actinopterygii: Anguilliformes: Anguillidae). Acta Ichthyologica Et Piscatoria, 2018, 48, 163-171.	0.3	4
103	Aquatic Vegetation Loss and Its Implication on Climate Regulation in a Protected Freshwater Wetland of Po River Delta Park (Italy). Water (Switzerland), 2022, 14, 117.	1.2	4
104	An Underestimated Contribution of Deltaic Denitrification in Reducing Nitrate Export to the Coastal Zone (Po River–Adriatic Sea, Northern Italy). Water (Switzerland), 2022, 14, 501.	1.2	4
105	Invasive catfish in northern Italy and their impacts on waterbirds. NeoBiota, 0, 72, 109-128.	1.0	4
106	NEW EQUATIONS FOR THE DETERMINATION OF SOIL SATURATED HYDRAULIC CONDUCTIVITY USING THE VAN GENUCHTEN MODEL PARAMETERS AND EFFECTIVE POROSITY. Irrigation and Drainage, 2013, 62, 537-542.	0.8	3
107	Comparison of Different "S-index―Expressions to Evaluate the State of Physical Soil Properties. Geotechnical and Geological Engineering, 2015, 33, 1055-1066.	0.8	3
108	A Review and Synthesis of Bivariate Non-Linear Models to Describe the Relative Variation of Ecological, Biological and Environmental Parameters. Environmental Modeling and Assessment, 2015, 20, 169-182.	1.2	3

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109	Geographic segmentation, spatial dependencies, and evaluation of the relative position of rain-gauges based on gridded data of mean monthly precipitation: application in Nigeria. Hydrology Research, 2018, 49, 107-122.	1.1	3
110	Temporal dynamics of species associations in the parasite community of European eels, Anguilla anguilla, from a coastal lagoon. International Journal for Parasitology: Parasites and Wildlife, 2020, 12, 67-75.	0.6	3
111	Seasonal Variation of Functional Traits in the Fish Community in a Brackish Lagoon of the Po River Delta (Northern Italy). Water (Switzerland), 2021, 13, 679.	1.2	3
112	Spectral Reflectance Indices as a High Throughput Selection Tool in a Sesame Breeding Scheme. Remote Sensing, 2022, 14, 2629.	1.8	3
113	Nitrate and Dissolved Organic Carbon Release in Sandy Soils at Different Liquid/Solid Ratios Amended with Graphene and Classical Soil Improvers. Applied Sciences (Switzerland), 2022, 12, 6220.	1.3	3
114	Seasonal Flooding and Rice Cultivation Effects on the Pore Size Distribution of a SiL Soil. Agriculture and Agricultural Science Procedia, 2015, 4, 195-200.	0.6	2
115	Introducing Life Cycle Assessment in Costs and Benefits Analysis of Vegetation Management in Drainage Canals of Lowland Agricultural Landscapes. Water (Switzerland), 2020, 12, 2236.	1.2	2
116	Nitrogen Effects on the Essential Oil and Biomass Production of Field Grown Greek Oregano (Origanum vulgare subsp. hirtum) Populations. Agronomy, 2021, 11, 1722.	1.3	2
117	Swoon over the moon: The influence of environmental factors on glass eels entering Mediterranean coastal lagoons. Estuarine, Coastal and Shelf Science, 2022, 264, 107668.	0.9	2
118	A soil parameter dataset collected by agricultural farms in northern Greece. Data in Brief, 2022, 43, 108408.	0.5	2
119	Length-weight relationships of three estuarine species in the Comacchio Lagoon, Po River delta, Italy. Journal of Applied Ichthyology, 2016, 32, 1284-1285.	0.3	1
120	Relations between environmental gradients and diversity indices of benthic invertebrates in lotic systems of northern Italy. Web Ecology, 2016, 16, 13-15.	0.4	1
121	Soil Denitrification, the Missing Piece in the Puzzle of Nitrogen Budget in Lowland Agricultural Basins. Ecosystems, $0$ , , $1$ .	1.6	0
122	A Bimodal Weight–Length Relationship in Bleak (Alburnus alburnus). Annales Zoologici Fennici, 2019, 56, 25.	0.2	0